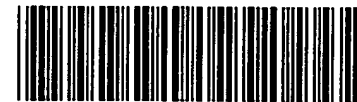


0590  
0416

H2



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002

TIME: 11:42:33

Input Set : N:\Crf3\RULE60\10062831.txt

Output Set: N:\CRF3\05202002\J062831.raw

1 <110> APPLICANT: Steven M. Ruben, et al.  
 3 <120> TITLE OF INVENTION: 32 Human Secreted Proteins  
 5 <130> FILE REFERENCE: P2006P1  
 7 <140> CURRENT APPLICATION NUMBER: 10/062,831  
 8 <141> CURRENT FILING DATE: 2002-02-05  
 10 <150> PRIOR APPLICATION NUMBER: 09/690,454  
 11 <151> PRIOR FILING DATE: 1998-11-10  
 13 <150> PRIOR APPLICATION NUMBER: PCT/US98/10868  
 W--> 14 <151> PRIOR FILING DATE: May 28, 1998  
 16 <150> PRIOR APPLICATION NUMBER: 60/044,039  
 W--> 17 <151> PRIOR FILING DATE: May 30, 1997  
 19 <150> PRIOR APPLICATION NUMBER: 60/048,093  
 W--> 20 <151> PRIOR FILING DATE: May 30, 1997  
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 25 <150> PRIOR APPLICATION NUMBER: 60/050,935  
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 28 <150> PRIOR APPLICATION NUMBER: 60/048,101  
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 31 <150> PRIOR APPLICATION NUMBER: 60/048,356  
 W--> 32 <151> PRIOR FILING DATE: May 30, 1997  
 34 <150> PRIOR APPLICATION NUMBER: 60/056,250  
 W--> 35 <151> PRIOR FILING DATE: August 29, 1997  
 37 <150> PRIOR APPLICATION NUMBER: 60/056,296  
 W--> 38 <151> PRIOR FILING DATE: August 29, 1997  
 40 <150> PRIOR APPLICATION NUMBER: 60/056,293  
 W--> 41 <151> PRIOR FILING DATE: August 29, 1997

ENTERED

43 <160> NUMBER OF SEQ ID NOS: 229  
 45 <170> SOFTWARE: PatentIn Ver. 2.0  
 48 <210> SEQ ID NO: 1  
 49 <211> LENGTH: 733  
 50 <212> TYPE: DNA  
 51 <213> ORGANISM: Homo sapiens  
 53 <400> SEQUENCE: 1  
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 55 aattcgaggg tgcaccgtca gtcttctctt tcccccaaaa acccaaggac accctcatga 120  
 56 tctcccgga tcttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180  
 57 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240  
 58 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300  
 59 ggctgaatgg caaggagtac aagtgcgaagg tctccaacaa agccctccca acccccatcg 360  
 60 agaaaacat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420  
 61 catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480  
 62 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002

TIME: 11:42:33

Input Set : N:\Crf3\RULE60\10062831.txt

Output Set: N:\CRF3\05202002\J062831.raw

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64 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc      660
65 acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc      720
66 gactctagag gat                                                                733
69 <210> SEQ ID NO: 2
70 <211> LENGTH: 5
71 <212> TYPE: PRT
72 <213> ORGANISM: Homo sapiens
74 <220> FEATURE:
75 <221> NAME/KEY: Site
76 <222> LOCATION: (3)
77 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
79 <400> SEQUENCE: 2
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81 1 5
83 <210> SEQ ID NO: 3
84 <211> LENGTH: 86
85 <212> TYPE: DNA
86 <213> ORGANISM: Homo sapiens
88 <400> SEQUENCE: 3
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90 cccgaaatat ctgccatctc aattag                                                                86
93 <210> SEQ ID NO: 4
94 <211> LENGTH: 27
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96 <213> ORGANISM: Homo sapiens
98 <400> SEQUENCE: 4
99 gcggcaagct ttttgcaaag cctaggc                                                                27
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103 <211> LENGTH: 271
104 <212> TYPE: DNA
105 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 5
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109 aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc      120
110 gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat      180
111 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt      240
112 ttttggaggc ctaggctttt gcaaaaagct t                                                                271
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116 <211> LENGTH: 32
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002

TIME: 11:42:33

Input Set : N:\Crif3\RULE60\10062831.txt

Output Set: N:\CRF3\05202002\J062831.raw

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136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 8
139 ggggactttc cc 12
142 <210> SEQ ID NO: 9
143 <211> LENGTH: 73
144 <212> TYPE: DNA
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 9
148 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
149 ccattctcaat tag 73
152 <210> SEQ ID NO: 10
153 <211> LENGTH: 256
154 <212> TYPE: DNA
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 10
158 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
159 caattagtcg gcaaccatag tcccgccctt aactccgccc atcccgcccc taactccgcc 120
160 cagttccgcc cattctccgc cccatggctg actaattttt ttattttatg cagaggccga 180
161 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
162 cttttgcaaa aagctt 256
165 <210> SEQ ID NO: 11
166 <211> LENGTH: 1169
167 <212> TYPE: DNA
168 <213> ORGANISM: Homo sapiens
170 <220> FEATURE:
171 <221> NAME/KEY: SITE
172 <222> LOCATION: (1151)
173 <223> OTHER INFORMATION: n equals a,t,g, or c
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176 <221> NAME/KEY: SITE
177 <222> LOCATION: (1160)
178 <223> OTHER INFORMATION: n equals a,t,g, or c
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181 <221> NAME/KEY: SITE
182 <222> LOCATION: (1168)
183 <223> OTHER INFORMATION: n equals a,t,g, or c
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187 gagggggttcg ggggttcttg gcaggcacia tggcgtctcg agcaggcccg cgagcggccg 120
188 rcaccgacgc agcgagcttt cagcaccggg agcgcgctcg catgcactac cagatgagtg 180
189 tgaccctcaa gtatgaaatc aagaagctga tctacgtaca tctggtcata tggctgctgc 240
190 tggttgctaa gatgagcgtg ggacacctga ggctcttgct acatgatcag gtggccatgc 300
191 cctatcagtg ggaatacccg tatttgctga gcattttgccc ctctctcttg ggcttctct 360
192 cctttccccc caacaacatt agctacctgg tgctctccat gatcagcatg ggactctttt 420
193 ccatogetcc actcatttat ggcagcatgg agatgttccc tgctgcacag ccttctaccg 480

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002

TIME: 11:42:33

Input Set : N:\Crif3\RULE60\10062831.txt

Output Set: N:\CRF3\05202002\J062831.raw

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195 gttggtggtg gcagtgaag tgcatgcctg gcagttgtac tacagcaaga agctcctaga      600
196 ctcttggttc accagcacac aggagaagaa gcataaatga agcctctttg gggatgaagcc      660
197 tggacatccc atcgaatgaa aggacactag tacagcgggt ccaaaatccc ttctggtgat      720
198 tttagcagct gtgatgttgg tacctggtgc agaccaggc caaagtcttg gaaagctcct      780
199 tttgccatct gctgaggtgg caaaactata atttatccct gggtggctag aactgggtga      840
200 ccaacagcta tgaacaaaat ttcagctggt tgaagttgaa ctttgaggtt tttctttaag      900
201 aatgagcttc gtccttgccct ctactcggtc attctcccca tttccatcca ttacccttta      960
202 gccattgaga ctaaaggaaa tagggaataa atcaaattac ttcactctta gggtcagggg      1020
203 caggaaacat ttgggcagct gtcctcttgg cagctgtggt ctctctgca aagcatttta      1080
204 attaaaaacc tcaataaaga tgccctgccc aaaaaaaaaa aaaaaaaaaa aattcggggg      1140
W--> 205 ggggccccggg naaccaattn gcccctana      1169
208 <210> SEQ ID NO: 12
209 <211> LENGTH: 1310
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 12
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215 agtgaggagt tccgctgtgc ccgggcctgc accatgagcg tcccggcctt catcgacatc      120
216 agtgaagaag atcaggctgc tgagcttcgt gtttatctga aatctaaagg agctgagatt      180
217 tcagaagaga actcggaaag tggacttcac gttgatttag ctcaaattat tgaagcctgt      240
218 gatgtgtgtc tgaaggagga tgataaagat gttgaaagtg tgatgaacag tgtggtatcc      300
219 ctactcttga tcttggaaac agacaagcaa gaagctttga ttgaaagcct atgtgaaaag      360
220 ctggtcaaat ttcgcgaagg tgaacgcccg tctctgagac tgcagttggt aagcaacctt      420
221 ttcacagggg tggataagaa tactcctgta agatacacag tgtattgcag ccttattaaa      480
222 gtggcagcat cttgtggggc catccagtac atcccaactg agctggatca agttagaaaa      540
223 tggatttctg actggaatct caccactgaa aaaaagcaca cccttttaag actactttat      600
224 gaggcacttg tggattgtaa gaagagtgat gctgcttcaa aagtcattgg ggaattgctc      660
225 ggaagttaca cagaggacaa tgcttcccag gctcgagttg atgcccacag gtgtattgta      720
226 cgagcattga aagatccaaa tgcatttctt tttgaccacc ttcttacttt aaaaccagtc      780
227 aagtttttgg aaggcgagct tattcatgat cttttaacca tttttgtgag tgctaaattg      840
228 gcatcatatg tcaagtttta tcagaataat aaagacttca ttgattcact tggcctgtta      900
229 catgaacaga atatggcaaa aatgagacta cttactttta tgggaatggc agtagaaaa      960
230 aaggaaatth cttttgacac aatgcagcaa gaacttcaga ttggagctga tgatgttgaa      1020
231 gcatttggtt ttgacgccgt aagaactaaa atggtctact gcaaaattga tcagaccag      1080
232 agaaaagtag ttgtcagtc tagcacacat cggacatttg gaaaacagca gtggcaacaa      1140
233 ctgtatgaca cacttaatgc ctggaaacaa aatctgaaca aagtgaaaaa cagccttttg      1200
234 agtctttctg atacctgagt ttttatgctt ataatttttg ttctttgaaa aaaaagcctt      1260
235 aaatcatagt aaaacattat aaactaaaaa aaaaaaaaaa aaaaaaaaaa      1310
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239 <211> LENGTH: 1139
240 <212> TYPE: DNA
241 <213> ORGANISM: Homo sapiens
243 <220> FEATURE:
244 <221> NAME/KEY: SITE
245 <222> LOCATION: (7)
246 <223> OTHER INFORMATION: n equals a,t,g, or c
248 <220> FEATURE:
249 <221> NAME/KEY: SITE

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002

TIME: 11:42:33

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Output Set: N:\CRF3\05202002\J062831.raw

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254 <221> NAME/KEY: SITE
255 <222> LOCATION: (968)
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259 <221> NAME/KEY: SITE
260 <222> LOCATION: (1139)
261 <223> OTHER INFORMATION: n equals a,t,g, or c
263 <400> SEQUENCE: 13
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265 ccctcgagcg gtgccggagc gcasccaggt gtgcttggtc ctgggccagc tggagaggtc      120
W--> 266 cattgcctgg gangaagtct gtcaacaaag tgacatgtct agtctgccgg aagggtgaca      180
267 atgatgagtt tcttctgctt tgtgatgggt gtraccgtgg ctgccacatt tactgccatc      240
268 gtcccaagat ggaggctgtc ccagaaggag attggttctg tactgtctgt ttggctcagc      300
269 aggtggaggg agaattcact cagaagcctg gtttcccaa gcgtggccag aagcggaaaa      360
270 gtggttattc gctgaacttc tcagagggtg atggccgccc acgccgggta ctgttgaggg      420
271 gccgagaaa cccagcagca gggcctcggg actcggaaga agggctctcc ccctccaagc      480
272 ggcggcgact ctctatgcgg aaccaccaca gtgatctcac attttgcgag attatcctga      540
273 tggagatgga gtcccatgat gcagcctggc ctttcctaga gcctgtgaac ccacgttttg      600
274 tgagtgggta ccggcgcatc atcaaaaatc ctatggattt ttccaccatg cgggagcggc      660
275 tgctcagggg aggttacacc agctcagagg agtttgcggc tgatgccctc ctggtatttg      720
276 acaactgcc aactttcaac gaggatgact ctgaagtagg caaggctggg cacatcatgc      780
277 gccgcttctt cgagagccgc tgggaggagt ttatcaggg aaaacaggcc aatctgtgag      840
278 gcaagggagg tggggagtca ccttgtggca tctccccca ccttccaaac aaaaacctgc      900
279 cattttcacc tgctgatgct gccctgggtc cagactcaag tcagatacaa ccctgatttt      960
W--> 280 tgaccttnc cttggcagtg ccccatatcc tcttattcct acatcccttt ctcccttccc      1020
281 tctcttgcct cctcaagtaa gaggtgcaga gatgagggtc ttctggacta aaagccaaaa      1080
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285 <210> SEQ ID NO: 14
286 <211> LENGTH: 2271
287 <212> TYPE: DNA
288 <213> ORGANISM: Homo sapiens
290 <400> SEQUENCE: 14
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292 gctgagccgg ccccgagccg caccgcagcc cctcctgctc cagcgtctgc cagggcccag      120
293 ctccctgtca gacaagaccc agctccacag cagggtggctg gactcgtcgc ggtgtctcat      180
294 gcagcagggc atcaaggccg gggacgcact ctgggtgcgc ttcaagtact acagcttctt      240
295 cgatttgat cccaagacag acccctgctg gctgacacag ctgtatgagc agggccgggtg      300
296 ggacctgctg ctggaggaga ttgactgcac cgaggaggag atgatggtgt ttgccgccct      360
297 gcagtaccac atcaacaagc tgtcccagag cggggagggtg ggggagccgg ctggcacaga      420
298 cccagggtctg gacgacctgg atgtggccct gagcaacctg gaggtgaagc tggaggggtc      480
299 ggcgcccaca gatgtgctgg acagcctcac caccatccca gagctcaagg accatctccg      540
300 aatctttcgg ccccggaagc tgacctgaa gggctaccgc caacactggg tgggtttcaa      600
301 ggagaccaca ctgtcctact acaagagcca ggacgaggcc cctggggacc ccattcagca      660
302 gctcaacctc aagggctgtg aggtggttcc cgatgttaac gtctccggcc agaagttctg      720
303 cattaacctc ctagtccct cccctgaggg catgagttag atctacctgc ggtgccagga      780
304 tgagcagcag tatgccgct ggatggctgg ctgccgctg gccctccaaa gccgcaccat      840

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002  
TIME: 11:42:34

Input Set : N:\Crf3\RULE60\10062831.txt  
Output Set: N:\CRF3\05202002\J062831.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 3  
Seq#:11; N Pos. 1151,1160,1168  
Seq#:13; N Pos. 7,133,968,1139  
Seq#:15; N Pos. 22,591  
Seq#:17; N Pos. 979,1007,1040,1050  
Seq#:18; N Pos. 639,697,1347,1361  
Seq#:19; N Pos. 20  
Seq#:20; N Pos. 1267  
Seq#:22; N Pos. 1283  
Seq#:24; N Pos. 452,480  
Seq#:25; N Pos. 580,621,1159  
Seq#:26; N Pos. 847,1303,1307,1314  
Seq#:28; N Pos. 9,21  
Seq#:29; N Pos. 922  
Seq#:31; N Pos. 2,28,44  
Seq#:32; N Pos. 1057  
Seq#:33; N Pos. 855,881,916,957  
Seq#:34; N Pos. 1889  
Seq#:35; N Pos. 18,26,1014,1015,1018  
Seq#:37; N Pos. 8,586  
Seq#:38; N Pos. 395  
Seq#:40; N Pos. 597  
Seq#:41; N Pos. 37  
Seq#:43; N Pos. 1591,1703  
Seq#:47; Xaa Pos. 146  
Seq#:48; Xaa Pos. 312  
Seq#:51; Xaa Pos. 83  
Seq#:52; Xaa Pos. 63  
Seq#:53; Xaa Pos. 114,124  
Seq#:54; Xaa Pos. 8,27,84,85,86,99,180  
Seq#:55; Xaa Pos. 221,287  
Seq#:56; Xaa Pos. 34  
Seq#:57; Xaa Pos. 24  
Seq#:58; Xaa Pos. 47  
Seq#:59; Xaa Pos. 114  
Seq#:60; Xaa Pos. 26,32  
Seq#:61; Xaa Pos. 19,33,81  
Seq#:63; Xaa Pos. 146  
Seq#:64; Xaa Pos. 31  
Seq#:65; Xaa Pos. 260  
Seq#:67; Xaa Pos. 27  
Seq#:68; Xaa Pos. 64,65  
Seq#:69; Xaa Pos. 216  
Seq#:70; Xaa Pos. 407

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002  
TIME: 11:42:34

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Output Set: N:\CRF3\05202002\J062831.raw

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Seq#:73; Xaa Pos. 55  
Seq#:74; Xaa Pos. 17,26  
Seq#:76; Xaa Pos. 33  
Seq#:77; Xaa Pos. 6,23  
Seq#:78; Xaa Pos. 18,21,80,102  
Seq#:79; Xaa Pos. 148,186,208  
Seq#:80; Xaa Pos. 95,100,146  
Seq#:81; Xaa Pos. 23  
Seq#:82; Xaa Pos. 21,31  
Seq#:112; Xaa Pos. 82,83,123,194  
Seq#:116; Xaa Pos. 3,4  
Seq#:117; Xaa Pos. 14  
Seq#:119; Xaa Pos. 24  
Seq#:121; Xaa Pos. 7  
Seq#:135; Xaa Pos. 120,139  
Seq#:150; Xaa Pos. 123  
Seq#:153; Xaa Pos. 81  
Seq#:154; Xaa Pos. 71  
Seq#:155; Xaa Pos. 30,115  
Seq#:156; Xaa Pos. 13,97  
Seq#:161; Xaa Pos. 13  
Seq#:171; Xaa Pos. 88  
Seq#:173; Xaa Pos. 23  
Seq#:181; Xaa Pos. 30,31,32  
Seq#:182; Xaa Pos. 16,23,25,26,27  
Seq#:190; Xaa Pos. 18,29  
Seq#:196; Xaa Pos. 85,97,157  
Seq#:201; Xaa Pos. 13,18,39  
Seq#:202; Xaa Pos. 16  
Seq#:220; Xaa Pos. 72  
Seq#:221; Xaa Pos. 39  
Seq#:222; Xaa Pos. 62,84,143,152  
Seq#:223; Xaa Pos. 74,92

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002

TIME: 11:42:34

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Output Set: N:\CRF3\05202002\J062831.raw

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L:17 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:23 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:26 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
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L:32 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:35 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:38 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:41 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:1140  
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:120  
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:960  
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1080  
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:540  
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:960  
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1020  
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:600  
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:660  
L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:1320  
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:1260  
L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:1260  
L:711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:420  
L:769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:540  
L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:600  
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:1140  
L:823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:840  
L:830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1260  
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:900  
L:979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:1021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:1020  
L:1068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:840  
L:1069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:900  
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:1860  
L:1149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:1165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:960  
L:1206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:540  
L:1242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:360  
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:540  
L:1307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:1393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1560  
L:1395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1680



## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/062,831

DATE: 05/20/2002

TIME: 11:42:34

Input Set : N:\Crf3\RULE60\10062831.txt

Output Set: N:\CRF3\05202002\J062831.raw

L:1540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:144  
L:1612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:304  
L:1761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:80  
L:1785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:48  
L:1826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:112  
L:1871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0  
L:1874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:16  
L:1886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:80  
L:1889 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:96  
L:1904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:176  
L:1963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:208  
L:1975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:272